OA dated 9/23/04

Amdt. dated 12/23/04

**REMARKS** 

By the present amendment, independent claim 1 has been amended to further

clarify the concepts of the present invention. In particular, claim 1 has been amended to

incorporate the subject matter of dependent claim 4 therein. Consequently, dependent

claims 4 and 9 have been canceled. Entry of these amendments is respectfully requested.

In the Office Action, claims 1-12 were rejected under 35 USC § 102(b) as being

anticipated by, or alternatively, under 35 USC 103(a) as being obvious over, the patent to

Chatterjee. In making this rejection, it was alleged that the Chatterjee patent teaches a

resin composition for metallized films formed of components which fall within the scope of

the noted claims, particularly citing the disclosure at line 21 of column 2 to line 55 of

column 4. Reconsideration of this rejection in view of the above claim amendments and

the following comments is respectfully requested.

Before discussing the rejection in detail, a brief review of the presently claimed

invention may be quite instructive. The subject invention relates to a polypropylene-based

resin composition for metallized films where the composition comprises, among other

things, a propylene random copolymer (A) produced in the presence of a metallocene

catalyst, which has the properties (a-1) to (a-5) as recited in claim 1. An extremely

important feature of this composition is that the propylene random copolymer (A)

OA dated 9/23/04

Amdt. dated 12/23/04

(hereinafter simply referred to as "copolymer (A)") is produced in the presence of a

metallocene catalyst. In other words, it is extremely difficult, if not impossible, to produce

the copolymer (A) without using a metallocene catalyst, that is, for example, in the

presence of a Ziegler-Natta type catalyst. It submitted that such a polypropylene-based

resin composition for metallized films which includes copolymer (A) is not taught or

suggested by the cited patent to Chatterjee.

More particularly, it is submitted that the Chatterjee patent does not teach or

suggest, among other things, the use of a metallocene catalyst for the production of a

propylene random copolymer. In support thereof, attention is directed to column 2, lines

4 to 9 of the <u>Chatterjee</u> patent which teaches:

"For example, the base polymer may be prepared by polymerizing propylene

and an α-olefin having 5 to 8 carbon atoms under polymerization conditions

in the presence of a titanium-based, olefin polymerization catalyst system

such as a magnesium halide-supported titanium-containing polymerization

catalyst system."

Attention further is directed to column 3, lines 23 to 26 of the Chatterjee patent which

teaches:

OA dated 9/23/04

Amdt. dated 12/23/04

"Acid acceptors act to neutralize acidic species, such as hydrochloric acid

(HCI), which are residues from the polymerization catalyst system such as

the Ziegler-Natta type catalyst system."

These two teachings from the <u>Chatterjee</u> patent strongly suggest that a Ziegler-Natta type

catalyst is used for producing the propylene random copolymer. Therefore, in the

Chatterjee patent, the amount and molecular weight of the solubles of the propylene

random copolymer are not well-balanced, so that the properties of the resultant metallized

film are unsatisfactory.

In the rejection, it was acknowledged that the Chatterjee patent does not specifically

disclose that the propylene random copolymer of the composition according to the patent

has all the properties (a-2) through (a-4) as recited in the subject claims. However, it was

asserted that the components of the resin composition of the cited Chatterjee patent would

be expected to possess the same properties as recited in the claims. In other words, it was

asserted that the components of the composition of the cited Chatterjee patent would

inherently have the same properties as the composition as claimed.

It is submitted that evidence contained in the subject specification demonstrates that

the propylene random copolymer of the composition according to the Chatterjee patent

does not in fact have one or more of the properties as claimed. In this regard, specific

OA dated 9/23/04

Amdt. dated 12/23/04

attention is directed to Comparative Examples 9 to 12 (see page 42, lines 1 to 4, page 42,

line 9 to page 43, line 3, Table 3 appearing at page 44 and Table 4 appearing at page 45

of the present specification), in which a propylene random copolymer is produced in the

presence of a Ziegler-Natta type catalyst (see also page 34, line 6 to page 36, line 15 of

the present specification). From these Comparative Examples, it is to be specifically noted

that the amount and molecular weight of the solubles (at 20°C and 40°C) are not well-

balanced, so that the properties of the resultant metallized film are unsatisfactory. These

Comparative Examples clearly demonstrate the importance of the use of a metallocene

catalyst in the production of copolymer (A).

Further, it should be noted that the production of a propylene random copolymer in

the presence of metallocene catalyst does not always give copolymer (A). In fact, in

Comparative Example 13 as set forth in the subject specification, although the propylene

random copolymer is produced in the presence of a metallocene catalyst (see page 36,

line 16 to page 37, line 12 of the present specification), the resultant copolymer has a

polydispersity index (PI) of 2.2 (smaller that the PI of copolymer (A)). As a consequence,

the properties of the resultant metallized film are unsatisfactory (see page 42, lines 1 to 4,

page 43, lines 4 to 8, Table 3 appearing at page 44 and Table 4 appearing at page 45 of

the present specification).

As apparent from the above, the production method and properties (especially PI)

OA dated 9/23/04

Amdt. dated 12/23/04

of copolymer (A) of the polypropylene-based resin composition for metallized films of the

presently claimed invention must be specified as in claim 1, in order to obtain a metallized

film with satisfactory properties. In this regard, attention is directed to page 7, line 26 to

page 8, line 3 of the present specification which states:

"The copolymer satisfying the PI limitation means that it has a molecular

weight distribution index in a specific range, and has a broader molecular

weight distribution than the conventional one having a narrow distribution,

which is one of the characteristics of the polymer produced in the presence

of metallocene catalyst."

This disclosure clearly demonstrates that the properties of copolymer (A) according to the

presently claimed invention are not typical and therefore are not obvious from the

Chatterjee patent. Thus, it is submitted that the Chatterjee patent does not teach or

suggest the essential features and unexpected effects of the presently claimed invention.

For the reasons stated above, withdrawal of the rejection under 35 U.S.C. § 102(b)

or 35 U.S.C. § 103(a) and allowance of claims 1-3 and 5-12 as amended over the cited

Chatterjee patent are respectfully requested.

In view of the foregoing, it is submitted that the subject application is now in

OA dated 9/23/04

Amdt. dated 12/23/04

condition for allowance and early notice to that effect is earnestly solicited.

In the event this paper is not timely filed, the undersigned hereby petitions for an appropriate extension of time. The fee for this extension may be charged to Deposit Account No. 01-2340, along with any other additional fees which may be required with respect to this paper.

Respectfully submitted,

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